

20031114.ba v03\_n570.bam.20031114

>From ???@??? Fri Nov 14 08:03:17 2003 -0600  
Message-Id: <200311141403.hAEE36p6002785@sco.theporch.com>  
Date: Fri, 14 Nov 2003 08:02:44 CST  
From: Old Tube Radios <boatanchors@theporch.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: BOATANCHORS digest 3570

BOATANCHORS Digest 3570

Topics covered in this issue include:

- 1) Re: Why 11 Meters/Addendum  
by WA5CAB@cs.com
- 2) portable transmitter  
by W0EOM@aol.com
- 3) Re: HQ-170 Bandswitch prob  
by "David L. Thompson" <thompson@mindspring.com>
- 4) Re: Johnson 500 - Why 11 Meters?  
by "David L. Thompson" <thompson@mindspring.com>
- 5) Re: Why 11 Meters/Addendum  
by "Ken Hickman" <n5cm@rtconline.com>
- 6) RS-6 knobs  
by "Marty's Refl. Drop" <polepeeg@aa4rm.ba-watch.org>
- 7) Re: Johnson 500 - Why 11 Meters?  
by John Kolb <jlkolb@cts.com>
- 8) Tubes to dispose of  
by "w5sum" <w5sum@glowbugs.com>
- 9) HQ-170 bandswitch update  
by K4BEV@aol.com
- 10) FS: BC-779-B w/xtal oscillator, rack cabinet, misc  
by "Merz Donald S" <merz.ds@mellon.com>
- 11) SR-500 Console  
by "David L. Thompson" <thompson@mindspring.com>
- 12) GC-1 question  
by Bob Roehrig <broehrig@aurora.edu>
- 13) Re: HQ-170 bandswitch update  
by "Arden Allen" <gumbear@pacbell.net>
- 14) National NC-44  
by David Stinson <arc5@ix.netcom.com>
- 15) Repair Help  
by Bob Kemp <bkemp@bobkemp.com>
- 16) Re: National NC-44  
by Al Klase <skywaves@bw.webex.net>
- 17) 75A4 Cap leakage  
by "JAMES T HANLON" <knjhanlon@msn.com>
- 18) Re: 75A4 Cap leakage

by Garey Barrell <k4oah@mindspring.com>  
19) Re: 75A4 Cap leakage  
by "Arden Allen" <gumbear@pacbell.net>  
20) Re: 75A4 Cap leakage  
by "Marty's Refl. Drop" <polepeeg@aa4rm.ba-watch.org>  
21) Re: 75A4 Cap leakage  
by Garey Barrell <k4oah@mindspring.com>

-----  
From: WA5CAB@cs.com  
Message-ID: <1db.14232701.2ce2934a@cs.com>  
Date: Tue, 11 Nov 2003 14:32:26 EST  
Subject: Re: Why 11 Meters/Addendum  
To: Old Tube Radios <boatanchors@theporch.com>  
MIME-Version: 1.0  
Content-Type: multipart/alternative;  
boundary="part1\_1db.14232701.2ce2934a\_boundary"

--part1\_1db.14232701.2ce2934a\_boundary  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Jay, et al,

And many of the early 11 Meter CB rigs were hastily converted 10 Meter ones.  
I recall several friends in the 60's "unconverting" Johnson Messengers by  
bypassing the power dropping resistor and retuning with appropriate crystal.

In a message dated 11/11/2003 1:17:20 PM Central Standard Time, jay@kk5im.com  
writes:

>  
>  
> To satisfy obligatory list content, the CB rigs  
> of 1958 were boatanchors with tubes!  
>

Robert Downs - Houston  
<<http://www.wa5cab.com>> (Web Store)  
<wa5cab@cs.com> (Primary email)  
<wa5cab@houston.rr.com> (Backup email)

--part1\_1db.14232701.2ce2934a\_boundary  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

\* \* \* \* \*  
\* ---REMAINDER OF MESSAGE TRUNCATED--- \*

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\* is not set to send PLAIN TEXT ONLY and needs adjusting \*  
\* \* \* \* \*

--part1\_1db.14232701.2ce2934a\_boundary--

-----  
From: W0EOM@aol.com  
Message-ID: <1ed.130deb6a.2ce2a610@aol.com>  
Date: Tue, 11 Nov 2003 15:52:32 EST  
Subject: portable transmitter  
To: Old Tube Radios <boatanchors@theporch.com>  
MIME-Version: 1.0  
Content-Type: multipart/alternative;  
boundary="part1\_1ed.130deb6a.2ce2a610\_boundary"

--part1\_1ed.130deb6a.2ce2a610\_boundary  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Is anyone familiar with a TR/PRT-101A 5 watt xmtr? It came in a wood box  
with power supply, battery box, and interface for a keyboard.  
circa 1965.

Will Jensby

--part1\_1ed.130deb6a.2ce2a610\_boundary  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

\* \* \* \* \*  
\* ---REMAINDER OF MESSAGE TRUNCATED--- \*  
\* This post contains a forbidden message format \*  
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--part1\_1ed.130deb6a.2ce2a610\_boundary--

-----  
Message-ID: <006401c3a8a5\$219096e0\$cc5545cf@default>

From: "David L. Thompson" <thompson@mindspring.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: HQ-170 Bandswitch prob  
Date: Tue, 11 Nov 2003 17:42:46 -0500

The HQ-170 bandswitch (as well as many older receivers) switches more than just the band. My last HQ 170A was dead on 75 at times. The 170 used 60Kcs IF's for selectivity and a weak tube or poor ground can develop and cause the frequency to change especially on the higher bands.

On the lower bands (40/80/160) the most frequent characteristic is a dead band or a noisy band.

I cleaned the switch but found that a quick tap on the bandswitch knob brought the 75 meter band alive. Later I found a high resistance ground that when corrected eliminated the problem but not the wobble on 10 or 15.

73 Dave K4JRB

-----  
Message-ID: <011001c3a8a8\$7874d2c0\$cc5545cf@default>  
From: "David L. Thompson" <thompson@mindspring.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Johnson 500 - Why 11 Meters?  
Date: Tue, 11 Nov 2003 18:06:41 -0500

Yes, Most rigs had 11 meters in the 1950's even though this was a seldom used band. There was even a QSO party to try and promote activity. Citizens Band radio was created in the late 1940's at 470 mcs. One or two companies sold transceivers but they only made a mile or two even with a decent antenna. Vocaline as I recall was one.

In 1956 a group asked Congress for an expansion of citizens band as the electronics industry saw a vast market for gear on a frequency that would support actual QSOs (such as the 11 meter band). The first frequency was a 27.155 as I recall and some put model planes on that frequency as the alternative was above 53Mcs on 6 meters and a technician ham license was required.

Not sure of Wayne Green's part as he was still at CQ Magazine then (this was 5 or 6 years before he founded 73 Magazine).

Dave K4JRB

-----  
Message-ID: <002101c3a8ab\$daaeac9c0\$414e9844@del14100>  
From: "Ken Hickman" <n5cm@rtconline.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Why 11 Meters/Addendum

Date: Tue, 11 Nov 2003 17:30:55 -0600  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 8bit

Hi Folks,

Did it ever occur to you that the persuasion to allocate the 11 Meter channels to the Citizen Band operations was to allow the average citizen get bitten by the DX bug hearing stations across country, even down into Central and South America and enhance the sales manyfold! Who wants a radio set that only has horizon range????

Once Unit One, a service truck, heard a unit across country the bug bit HARD! Just think, I can do what the Ham Operators do and do not even have to learn the Morse Code! The swapping of QSL cards became quite a fad....

FWIW

Ken....N5CM....NNN0FKQ....

----- Original Message -----

From: "Jay H. Miller" <jay@kk5im.com>  
To: "Old Tube Radios" <boatanchors@theporch.com>  
Sent: Tuesday, November 11, 2003 1:15 PM  
Subject: Why 11 Meters/Addendum

Actually the Citizens Radio Service was formed in 1946 (not 1958 as I previously wrote) and allocated a frequency somewhere around 460 mHz. In 1958 the 11 meter ham band was re-allocated to CB to "encourage use" of the Class C and D licenses.

Several good webpages delve into more detail:

[http://www.ce.org/publications/books\\_references/digital\\_america/history/cb\\_radios.asp](http://www.ce.org/publications/books_references/digital_america/history/cb_radios.asp)

<http://www.ham-shack.com/history27.html>

To satisfy obligatory list content, the CB rigs of 1958 were boatanchors with tubes!

\*\*\*\*\* jay@kk5im.com \*\*\*\*\*  
Jay H. Miller, KK5IM Dallas, Texas  
NRA \* ARRL \* AMI#846 \* DXCC \* S.A.S.S. #34,692  
32<sup>nd</sup> AASR \* MVPA #25,180  
Website: <http://www.kk5im.com>  
\*\*\*\*\* Proud to be 100% Macintosh since 1984! \*\*\*\*\*

-----  
Date: Tue, 11 Nov 2003 19:00:10 -0500 (EST)  
From: "Marty's Refl. Drop" <polepeeg@aa4rm.ba-watch.org>  
Message-Id: <200311120000.TAA05253@aa4rm.ba-watch.org>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: RS-6 knobs

RS-6 being the quad sardine-can spy-controversy set

I've one set with the RP-6 power-sypply knob and the RT-6(A) loading knobs. Have a 2nd set with neither.

Local fella can make a batch of "SPA resin replicas." One \$100 run wud make about 4 of each knob.

Anyone out there know of a better, cheaper, faster way?

My cloner pal winked & sed his replica knobs, tho not cheap, wud be windows compatible.

Marty

-----  
Date: Tue, 11 Nov 2003 20:11:48 -0800 (PST)  
From: John Kolb <jlkolb@cts.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
cc: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Johnson 500 - Why 11 Meters?  
Message-ID: <Pine.BSF.4.44.0311112010590.51380-1000000@king.cts.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 11 Nov 2003, David L. Thompson wrote:

> Yes, Most rigs had 11 meters in the 1950's even though this was a seldom  
> used band. There was even a QSO party to try and promote activity. Citizens  
> Band radio was created in the late 1940's at 470 mcs. One or two companies  
> sold transceivers but they only made a mile or two even with a decent  
> antenna. Vocaline as I recall was one.  
>  
> Not sure of Wayne Green's part as he was still at CQ Magazine then (this was

> 5 or 6 years before he founded 73 Magazine).

As I recall, it was CQ Magazine that had the "Save 11" contest.

John

-----  
From: "w5sum" <w5sum@glowbugs.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Tubes to dispose of  
Date: Wed, 12 Nov 2003 07:35:07 -0500  
Message-Id: <20031112123507.M626@glowbugs.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=iso-8859-1

I have the following new in the box, new old stock, vacuum tubes that are surplus to my needs. Will trade them for tubes I would like to put in my stock like 6L6's, 6V6's, 5Y3's, 6AG7, 6AL5, 6SJ7, 6SK7 to name a few. I could use a pair of 805's.

3 - 5931  
5 - 5933WA  
6 - 7984  
2 - 6AS7  
5 - 6080  
3 - PE930  
4 - 8156  
6 - 2D21

anyone need these?

Ronnie  
The "AM" voice of Shreveport, Louisiana USA  
formerly WN5AIA and WB5AIA  
I got my Extra Class the old fashioned way... I earned it!

-----  
From: K4BEV@aol.com  
Message-ID: <7e.415eab27.2ce3acde@aol.com>  
Date: Wed, 12 Nov 2003 10:33:50 EST

Subject: HQ-170 bandswitch update  
To: Old Tube Radios <boatanchors@theporch.com>  
MIME-Version: 1.0  
Content-Type: multipart/alternative;  
boundary="part1\_7e.415eab27.2ce3acde\_boundary"

--part1\_7e.415eab27.2ce3acde\_boundary  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Nothing solved yet.

To clarify the issue: This is not a result of hand capacitance. The switch has to be rocked a bit to get the frequency to change. A very slight bit of torque on the bandswitch knob is all it takes. I can vary the frequency about 1.5 kc either way. The frequency goes down if I apply torque ccw and up if I turn it to the right.

Have tightened all hardware (nothing very loose though).

Using a plastic alignment tool, I've "forced" all wiper contacts on each bandswitch wafer with no change.

All of the wafers have been cleaned (again) and lubed.

I've cycled the bandswitch a bunch of times (over 100).

Tried grounding the osc ckt cans.

Checked for loose or corroded ground connections with a jumper and found none.

Cleaned and lubed the main tuning capacitor's wiper.

I have noticed that any change in the position of the wire from the switch enabling 2 meters (It's an HQ-170-A-VHF) will cause a change in frequency, and this wire passes very close to the bandswitch coupler (the coupling that joins the knob mechanism with the bandswitch shaft).

I'm wondering if this wire shouldn't be rerouted, or maybe even changed to coax.

Any thoughts?

Thanks, Don - K4BEV

--part1\_7e.415eab27.2ce3acde\_boundary  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

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--part1\_7e.415eab27.2ce3acde\_boundary--

-----  
Message-ID: <20031112174207.28281.qmail@mellon.com>  
content-class: urn:content-classes:message  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: quoted-printable  
Subject: FS: BC-779-B w/xtal oscillator, rack cabinet, misc  
Date: Wed, 12 Nov 2003 12:42:05 -0500  
From: "Merz Donald S" <merz.ds@mellon.com>  
To: Old Tube Radios <boatanchors@theporch.com>

For Sale

Gray rack cabinet. This is a standard 19" wide rack cabinet with 12.25 = inches of rack space. The internal depth is 14.75 inches. This means = that this cabinet will hold and R390, R390A and any of the early = Super-Pros. It is not deep enough to hold an SP-600. This has an access = door on top and louvers on the sides. It is painted a dark battleship = gray and has lots of scuffs and scratches. The mounting rails have = threaded holes for mounting screws. \$50 Picture available.

Now here's something different. This is a post-war BC-779-B Super-Pro to = which a crystal oscillator modification kit has been bolted on. The = radio itself has no military tag. the Hammarlund tag on the back is = unreadable except for the embossed notation "LXR" and "4550". The xtal = oscillator kit add-on has a military tag that says "Improvement Kit = MC-531". The kit was made under a 1949 contract. This radio comes with a = matching military power supply RA-84A made by Howard Radio in 1942 with = a 1951 MWO stamp. Both radio and power supply are rack mount. They both = have top and bottom covers. This radio was part of a diversity receiver = setup called the AN/FRR-12. The crystal oscillator is clearly shown in = manual TM 11-896. This setup dates from between 1948 and 1951. The radio = front panel is dark gray and the power supply panel is light gray. I = think the radio panel has been repainted. The radio has all the original = knobs. The band switch, band spread and tuning controls all work as they = should. The meter is original and looks good. This set comes with the = original manual for AN/FRR-12 (TM 11-896) which clearly shows the = crystal oscillator setup. The manual is unfortunately missing the = schematic but I can supply a copy of a BC-779-B schematic to fill the = void. Also comes with the correct cable to attach the radio to the power = supply. All original as far as I can see. Untested and assumed to need =

restoration. As-is. \$75 Pictures available.

Heathkit AR-27 solid state FM receiver with original manual. =  
1969-vintage. Needs cleaned but will look excellent when done. Appears =  
to be all original. Untested. As-is. \$8

Sams Auto Radio Manual Volumes 12 and 23. These cover over 110 car =  
radios from 1959 through 1963. Many popular brands. \$11 including =  
postage.

Thanks for looking.

73, Don Merz, N3RHT=20

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=20

-----  
Message-ID: <00c801c3a954\$0ade6580\$a45a45cf@default>

From: "David L. Thompson" <thompson@mindspring.com>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: SR-500 Console

Date: Wed, 12 Nov 2003 14:34:45 -0500

I found the picture of the Hallicrafters SR-500 console in the May 1962 CQ  
on page 51. Shows HB9RS sitting at the console at ET3RS in Ethiopia during  
the CQ World Wide SSB Contest in 1961. This was set up at Police HQ  
(INTERPOL). I was one of the luck ones to QSO them.

The SR-500 is not to be confused with the later SR-500 transceiver. This  
console consisted of a SX-100 receiver, HT-30 transmitter, and small  
amplifier all in a console with key lock and small desk in front of the  
receiver. This was shown in the Hallicrafters ads in the ARRL Handbook in  
the late 1950's. Hallicrafters replaced this with another console  
(SR-1000) in the early 60's. The 1000 was the HT32, HT-33, and Sx-101.

The only other picture of a SR-500 was in the used gear page of my 1959  
Harrison catalog. (besides the Handbook). The only SR-1000 I know of was  
supposed to be delivered to HV1CN at the Vatican in 1961 by Bill Halligan Sr  
and Trav K9EBE. I recall the separates were sent instead. Plus a new  
SX-115 replaced the SX-101.

73 Dave K4JRB

-----  
Date: Wed, 12 Nov 2003 20:15:58 -0600 (CST)  
From: Bob Roehrig <broehrig@aurora.edu>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: GC-1 question  
Message-ID: <Pine.OSF.4.58.0311122014350.314600@mail.aurora.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I am looking for info on the Central Electronics GC-1 compressor. In particular, I would like to know the output impedances of the output transformer.

Bob Roehrig  
Aurora University Telecom/IS dept.  
broehrig@aurora.edu 73 de K9EUI  
630-844-4898 fax 630-844-4222

-----  
Message-ID: <000f01c3a995\$f43ff7c0\$bee47443@KB6NAX>  
From: "Arden Allen" <gumbear@pacbell.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: HQ-170 bandswitch update  
Date: Wed, 12 Nov 2003 19:26:32 -0800  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Just a guess on my part, Don, that if you jar the radio a few times without touching the bandswitch the frequency doesn't change except for some wobble when the radio is being jarred. If the frequency tends to jump here and there as a result of the jarring you have a problem. If it always returns to the same frequency you really don't have a problem. It's just the nature of a bandswitched oscillator with all its bandswitch haywiring which is mechanically frail. Shifting the frequency up and down by twisting the bandswitch a tad this and that way just illustrates the problem.

Look for oscillator tank circuit wiring that is in close proximity to other wires, components or chassis metal. If you can increase the distance between wires and objects to reduce stray capacitances it may help to reduce frequency shifting in response to flexing of the bandswitch.

Arden Allen  
KB6NAX  
735 Sixth St.

Vallejo, CA 94590  
gumbear@pacbell.net

-----  
Message-ID: <3FB39BE7.2CA23210@ix.netcom.com>  
Date: Thu, 13 Nov 2003 08:57:43 -0600  
From: David Stinson <arc5@ix.netcom.com>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: National NC-44  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Is this a rare set? Never seen one.  
You know where, item=2203115596

-----  
Message-ID: <3FB3B43B.30000005@bobkemp.com>  
Date: Thu, 13 Nov 2003 10:41:31 -0600  
From: Bob Kemp <bkemp@bobkemp.com>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Repair Help  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Transfer-Encoding: 7bit

Just a quick note to the list and a thank you to the help I received on the repairs to a radio that was ailing. Great group here.  
Special thanks to A.A.

Bob  
wa0vrc

-----  
Message-ID: <3FB3BB70.7090503@bw.webex.net>  
Date: Thu, 13 Nov 2003 12:12:16 -0500  
From: Al Klase <skywaves@bw.webex.net>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
CC: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: National NC-44  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Transfer-Encoding: 7bit

Hi Dave,

I guess by now they're rare. There were probably thousands made, but they were inexpensive (\$50) AC/DC sets and didn't

get a lot of respect. They show up occasionally. The speaker is a definite plus.

Al

David Stinson wrote:

> Is this a rare set? Never seen one.  
> You know where, item=2203115596  
>  
>  
>

--

Al Klase - N3FRQ  
skywaves@bw.webex.net  
Flemington, NJ 08822  
Web Page: <http://www.webex.net/~skywaves/home.htm>

-----  
From: "JAMES T HANLON" <knjhanlon@msn.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Cc: "doc" <doc@cybermesa.com>  
Subject: 75A4 Cap leakage  
Date: Thu, 13 Nov 2003 14:41:41 -0700  
MIME-Version: 1.0  
Content-Type: multipart/alternative;  
boundary="-----\_NextPart\_000\_0008\_01C3A9F4.406633E0"  
Message-ID: <BAY4-DAV8lk3mrZm2Ln00000da7@hotmail.com>

This is a multi-part message in MIME format.

-----\_NextPart\_000\_0008\_01C3A9F4.406633E0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: quoted-printable

Y'all, =20

I wrote a few days back asking about the "deadly" capacitors in the =  
75A4, and I got good advice from a number of list members about them. =  
There are Chuck Ripple's "seven deadly caps and Butch, K0BS's " three =  
troublesome micas, all of which are recommended for replacement. Beyond =  
those, many folks recommend replacing the "black beauties" because as =  
one advisor said they "leak like a sieve."

I've had my problems with black beauties in an SP-600; every darn one of =  
them failed shorted over the span of several years. But I was somewhat =

impressed by the fact that all of the black beauties in my 75A4 are = still in place and are apparently functioning adequately, so I decided = to make a couple of measurements. Only 5 out of the 12 have appreciable = voltage across them, and I measured the voltage across two of those guys = and the dc current going through them. For C70, the V7 plate bypass, I = measured 182 volts and 0.7 microamps, corresponding to an internal shunt = (leakage) resistance of 260 megohms and to 0.127 milliwatts dc = dissipation. For C62, the V5 plate decoupling capacitor, I measured 173 = volts and 0.6 microamps, corresponding to a resistance of 288 megohms = and to 0.104 milliwatts dc dissipation. =20

Now granted these two are not as good as an orange drop. I paralleled a = 0.1 mfd, 400 volt orange drop across C70, and I my dvm was flickering = between 000.0 and 000.1 microamps reading the leakage current through = the orange drop. So the orange drop is definitely better when it comes = to dc leakage. =20

My question is, however, are these two black beauties sufficiently leaky = so that they should be replaced? =20

My A4 is serial number 3342 in case that is of any significance.

Thanks to all who responded earlier and to all of you savants for your = help this time.

Jim, W8KGI

ps - One responder recommended that C-147 (V12, pin 1) and C-148 (V12, = pin 2/5) be replaced as well. I can't find them on my 75A4 schematic = (Revision 1 October, 1955). But there do appear to be several = capacitors tied to V12 in my 75A4 not shown on my schematic, including = what appears to be a 500 pf mica tied to pin 1/5 and another 500 pf mica = tied to pin 2. If someone has a 75A4 schematic showing that variation = including capacitors C-147 and C-148 or knows where I could download = such a schematic, I would appreciate a copy or a lead.

Thanks again,

Jim

-----=\_NextPart\_000\_0008\_01C3A9F4.406633E0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

\* \* \* \* \*  
\* ---REMAINDER OF MESSAGE TRUNCATED--- \*  
\* This post contains a forbidden message format \*  
\* (such as an attached file, a v-card, HTML formatting) \*

\* Mail Lists at theporch.com only accept PLAIN TEXT \*  
\* If your postings display this message your mail program \*  
\* is not set to send PLAIN TEXT ONLY and needs adjusting \*  
\* \* \* \* \*

-----=\_NextPart\_000\_0008\_01C3A9F4.406633E0--

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Message-ID: <3FB403C5.9040006@mindspring.com>  
Date: Thu, 13 Nov 2003 17:20:53 -0500  
From: Garey Barrell <k4oah@mindspring.com>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: 75A4 Cap leakage  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Transfer-Encoding: 7bit

Jim -

While a couple of your caps are doing fine now, they are almost certain to break down, sooner rather than later. It's a lot simpler to do it now! :-)

C147 and C148 are shown on the schematic in Section 5 of the 3rd Edition manual on the CCA website in the manual section.

<<http://www.collinsradio.org/>>

73, Garey - K40AH  
Atlanta

JAMES T HANLON wrote:

> \* \* \* \* \*  
> \* ---REMAINDER OF MESSAGE TRUNCATED--- \*  
> \* This post contains a forbidden message format \*  
> \* (such as an attached file, a v-card, HTML formatting) \*  
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> \* If your postings display this message your mail program \*  
> \* is not set to send PLAIN TEXT ONLY and needs adjusting \*  
> \* \* \* \* \*  
>

-----  
Message-ID: <003501c3aa70\$58672680\$55e57443@KB6NAX>  
From: "Arden Allen" <gumbear@pacbell.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Cc: "doc" <doc@cybermesa.com>

Subject: Re: 75A4 Cap leakage  
Date: Thu, 13 Nov 2003 21:29:52 -0800  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi Jim;

> My question is, however, are these two black beauties sufficiently leaky so that they should be replaced?

No. But the question that haunts boatanchors is, will their leakage worsen until things go bad? My observations have told me the answer is both yes and no. Although I don't have historical documentation to back me up I believe Sprague and other premier capacitor manufacturers made products of different design and quality levels. It's not surprising to me to find ancient capacitors that test very good among those that are now junk. The facts seem to me that in the 50's manufacturers knew how to make long life capacitors but of course they were more expensive. The call to replace or leave in really depends on the individual situation. I've seen too many cases of wholesale capacitor replacements that instead of making a rig more reliable actually created more problems from poor workmanship and damaged components. If you know what you are doing you know what to do. If you don't know what to do than you need to climb that learning curve or pay an expert to do the work for you. I think you are on the right track, Jim. Careful observation and analysis will win for you the answer.

Sorry about the sermon.

Arden Allen  
KB6NAX

-----  
Date: Fri, 14 Nov 2003 07:04:04 -0500 (EST)  
From: "Marty's Refl. Drop" <polepeeg@aa4rm.ba-watch.org>  
Message-Id: <200311141204.HAA06969@aa4rm.ba-watch.org>  
To: Old Tube Radios <boatanchors@theporch.com>  
Cc: doc@cybermesa.com  
Subject: Re: 75A4 Cap leakage

Jim doesn't Poisson statistics say that with unchanged externals\*, the failure probability of an understressed good component employed for 50 years is incalculably small for the next 50?

I'd call the A4's AVC blackies understressed & bet they'll last any readers here by a few days



But the C195 AVC amp SM rc-coupler is another matter. Hardly deadly but usually disabling.

M

\*like no radioactive decay, tread wear-out, etc. Hey tread wear-out may be sneaking in since so many BELIEVE 'recaps' are the only way to go.

and FB Ohm's law employment! At least for the poor, laws once were black & white (ooops) pronouncements. But now everyone's entitled to treatment once afforded the rich. That is laws are guidelines & it's the jury presentation that counts. Mindset fattens courtesans but toughens circuit design.

-----  
Message-ID: <3FB4DFF9.4040301@mindspring.com>  
Date: Fri, 14 Nov 2003 09:00:25 -0500  
From: Garey Barrell <k4oah@mindspring.com>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
CC: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: 75A4 Cap leakage  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Transfer-Encoding: 7bit

Marty -

I think I understand what you said .... (I'm never quite sure!) :-)

What if his receiver has been in a closet for the last, oh say ... 37 years?

Then there's that pesky bell curve thingy..

With black beauties, the odds are against ya, no matter how you look at it.

73, Garey - K40AH

Marty's Repl. Drop wrote:

> Jim doesn't Poisson statistics say that with unchanged externals\*, the  
> failure probability of an understressed good component employed for  
> 50 years is incalculably small for the next 50?  
>  
> I'd call the A4's AVC blackies understressed & bet they'll last any readers  
> here by a few days  
>

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End of BOATANCHORS Digest 3570  
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